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FIG 1
Prior Art

After Hard Mask Open
(Initial HM angle reducing because of side etching)

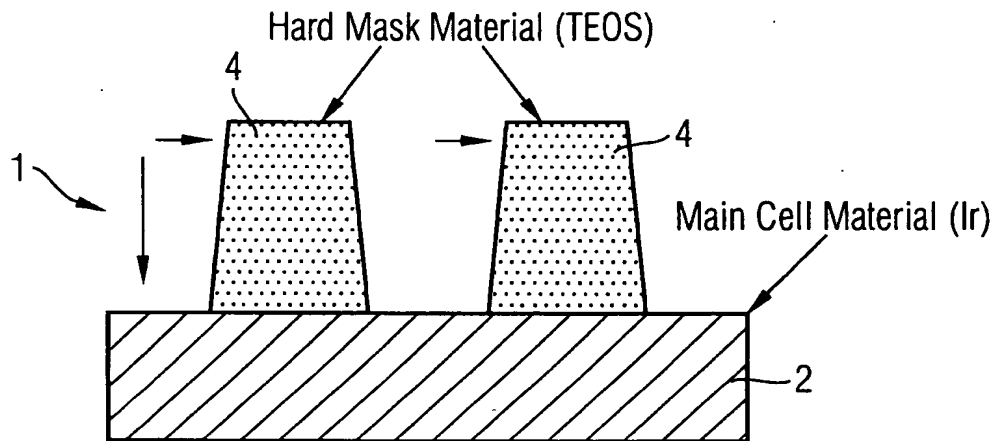
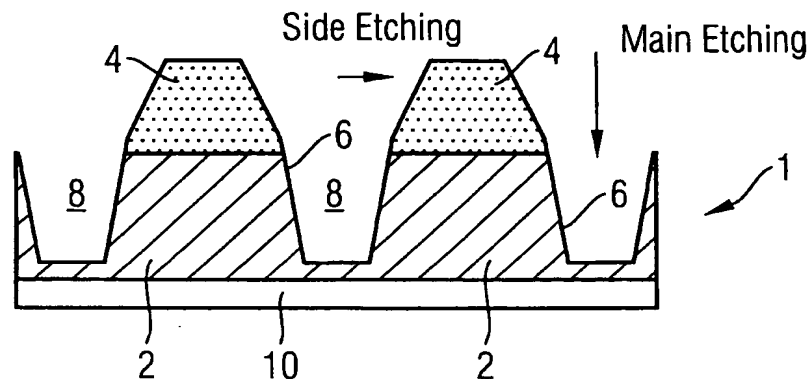
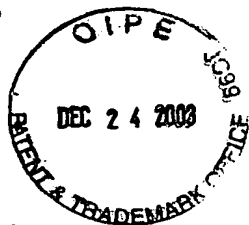


FIG 2
Prior Art

During Cell RIE
(HM angle further reduce because of side etching)





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FIG 3A

Before main etching
(hard mask with a "hard shell", vertical shape)

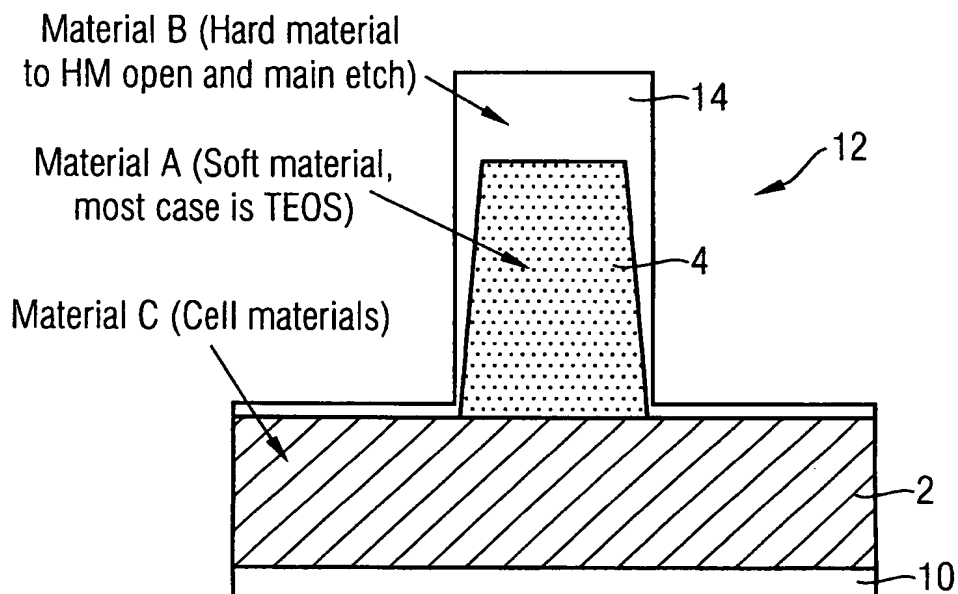
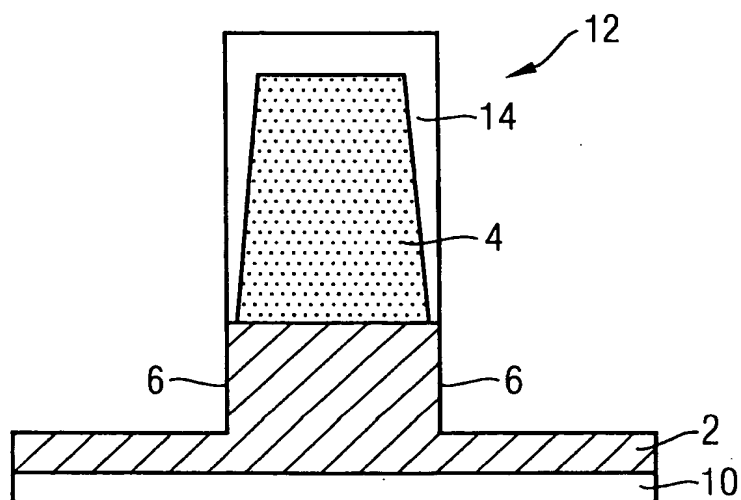


FIG 3B

During main etching
(hard mask shape not change because of the shell)





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FIG 4

Before hard mask open

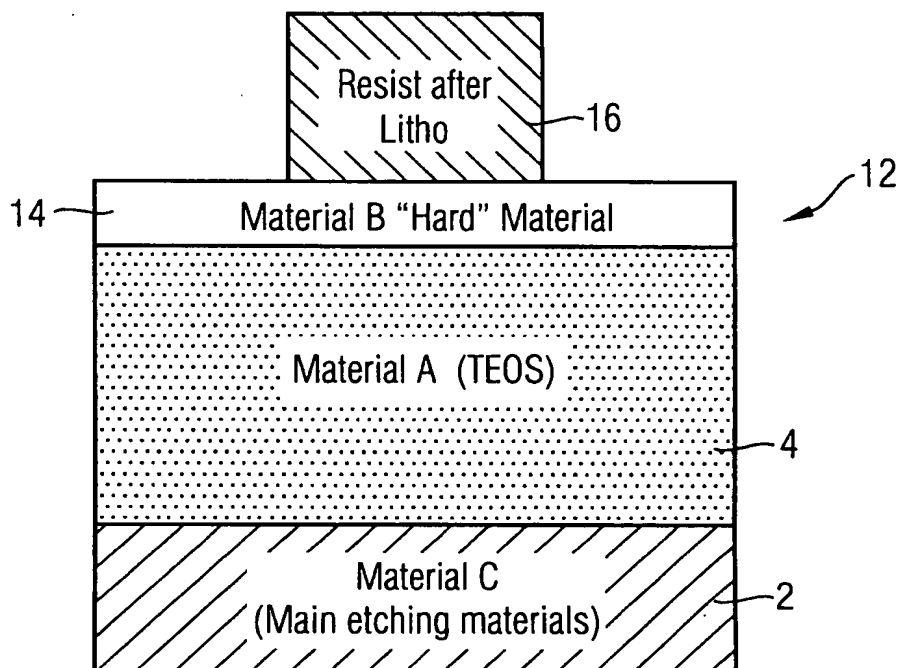
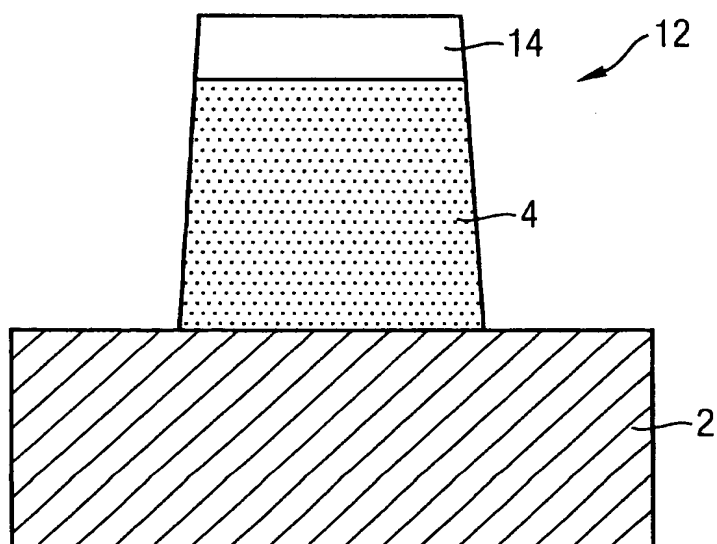


FIG 5

After hard mask open





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FIG 6

Additional hard material deposit
(Before main etching)

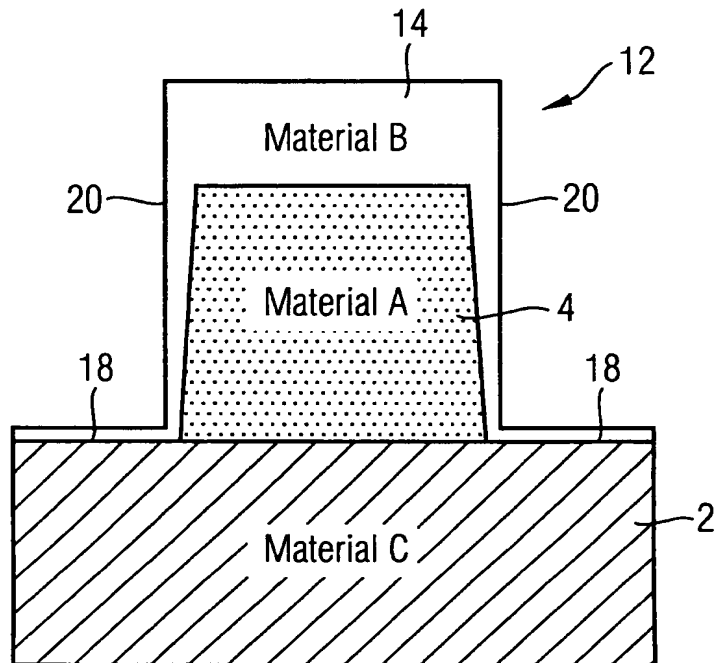
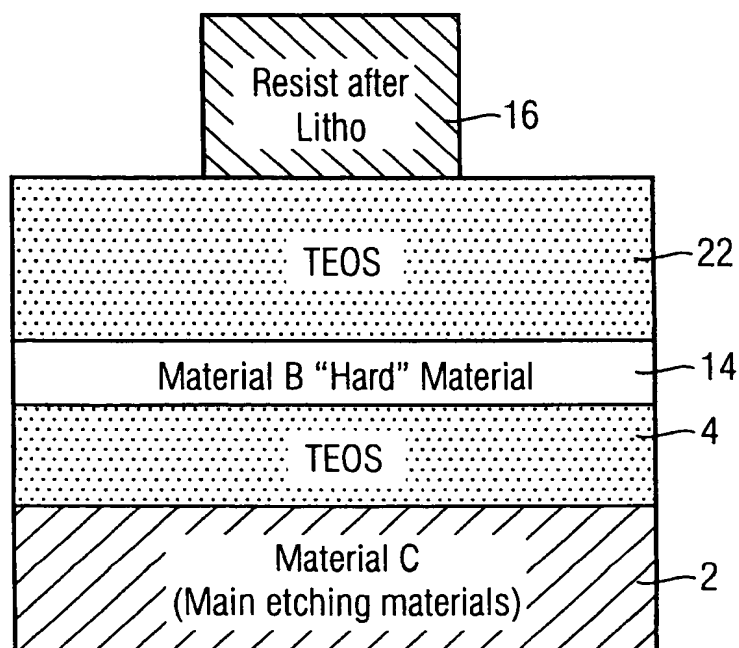


FIG 7

Before hard mask open





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FIG 8

Before etching material B

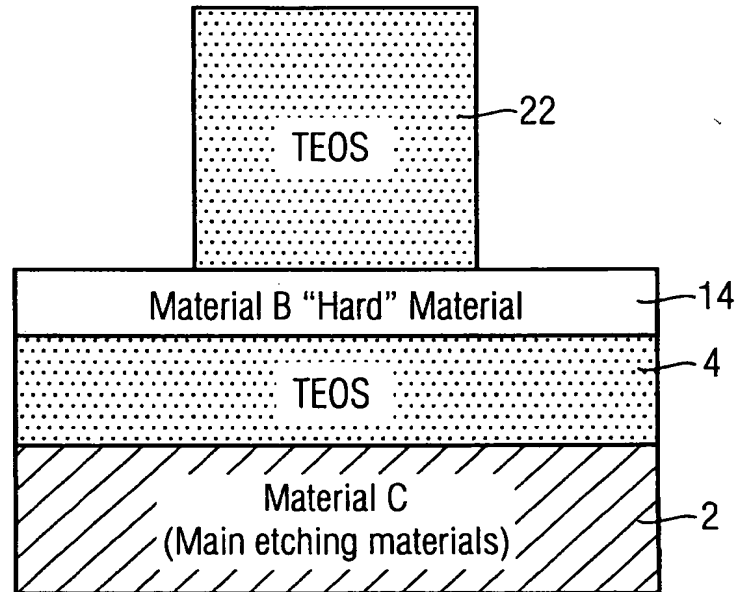
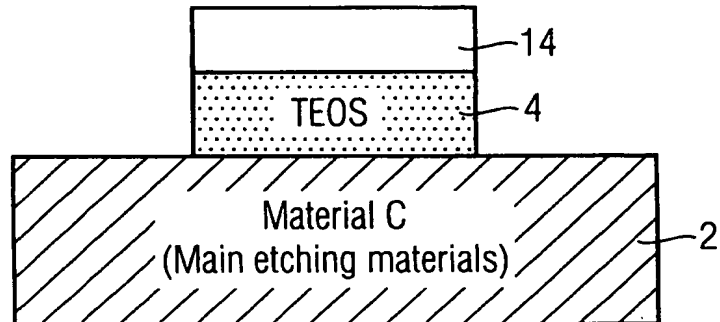


FIG 9

Before material B deposit





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FIG 10

After material B deposit

